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The importance of a mathematician's contributions to the development of the subject is not always appropriately measured by the number of theorems proved. Instead, a program can involve a wider vision, and many of the details are left to others to carry out. Frege's program for the logicization of arithmetic has continued to have an influence, even when there were flaws in his own attempt to carry it out. Leibniz's program for the mechanization of reason did not get nearly so far as Frege's, but it has also retained its importance, especially with regard to motivation. This talk will look at these two programs and their continuing influence, while comparing them with other research programs that were more conspicuously successful in detail. (Received September 21, 2015)